

## DAILY FIELD ACTIVITY REPORT

**PROJECT NAME:** Pre-Remedial Design Investigation and Baseline Sampling, Portland Harbor Superfund Site

<b>DATE:</b> May 9, 2018	<b>WEATHER:</b> Partly cloudy, High ~65 degrees F
<b>Personnel and Visitors Onsite:</b> Research vessel Discovery – <u>CDM Smith</u> : Julee Trump; <u>AECOM</u> : Nicky Moody; <u>Geosyntec</u> : Alison Clements; <u>Gravity Marine</u> : Mike Duffield, Ed Sloan  Research vessel Cayuse – <u>CDM Smith</u> : Julee Trump; <u>AECOM</u> : Mark Tauscher; <u>Geosyntec</u> : Keith Kroeger; <u>Gravity Marine</u> : Peter Jenkins, Jeff Schut	
<b>Planned Activity:</b> <ul style="list-style-type: none"><li>Collect surface sediment samples at stratified random, sediment management area (SMA) and co-located core locations near River Mile (RM) 2 east, near RM 5.7, and in a slip adjacent to the Schnitzer site (RM 3.8 east).</li></ul>	
<b>Activity Completed:</b> <p>A tailgate safety meeting was led by AECOM. Topics discussed included stop work conditions, metal particulate and fumes, Fitness for Duty, Discovery vessel orientation.</p> <p>Julee Trump performed morning oversight of surface sediment sampling from 08:00 to 12:30 on board the Discovery and received afternoon summary. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows:</p> <ul style="list-style-type: none"><li>Position check at PH-2 indicated that the vessel GPS was reading within 0.3 meters of the PH-2 survey coordinates, meeting the 1-2 m accuracy specification in the FSP.</li><li>3-point composite surface sediment samples were collected from 5 SMA, co-located boring, and stratified random locations in the Schnitzer Steel slip (~RM 3.7) and near RM 2 east as summarized below. Activities included decontamination of sampling equipment using Alconox and deionized/distilled water and housekeeping of the sampling area.</li><li>An MS/MSD was collected as summarized below</li></ul> <p>Julee Trump performed afternoon oversight of surface sediment sampling from 12:30 to 18:00 on board the Cayuse and received afternoon summary. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows:</p> <ul style="list-style-type: none"><li>Position check at PH-2 indicated that the vessel GPS was reading within 0.6 meters of the PH-2 survey coordinates, meeting the 1-2 m accuracy specification in the FSP.</li><li>3-point composite surface sediment samples were collected from 5 SMA and co-located boring locations near RM 6.7 as summarized below. Activities included decontamination of sampling equipment using Alconox and deionized/distilled water and housekeeping of the sampling area.</li></ul> <p>Note: Due to illness a second oversight person was unavailable and CDM Smith was unable to find a replacement on short notice. A second person will be available on Thursday May 10, 2018.</p>	
<b>Status of Schedule &amp; Priority Work:</b> <ul style="list-style-type: none"><li>Sampling will continue tomorrow with SMA and co-located core sampling locations.</li><li>Sampling on some private property locations will continue to occur at locations with property access agreements.</li><li>Sample locations in areas of known/encountered heavy sheen contamination are planned to be skipped and returned to with support from NRC Environmental Services to contain sheen during sampling.</li><li>Sampling is taking more time than initially projected.</li></ul>	
<b>Issues/Concerns/Resolutions (include work performed that was not planned or anticipated):</b> <p>At difficult locations, collection and processing composite samples can take up to 2 hours at locations with difficult grab recovery, leaving the sample exposed to air before it is jarred and placed on ice. As temperatures are getting warmer and with increased sampling time, this could become an issue. The field crew has mentioned this time issue but has not offered any solutions other than just going faster, which may not always be feasible.</p> <p>Hard Sediment was encountered at SG-S090 and SG-S088 locations. The EPA 2-bowl method was implemented to collect thin and thick samples. A 3-point composite thick sample was not achievable at SG-090. As listed below, the Cayuse crew sampled SG-090 from the only one grab, which met acceptance criteria. AECOM recognized this is not consistent with the EPA's method for sampling hard sediment or the FSP and plans to archive the sample in hopes that it may be acceptable to use in lieu of no data at the SMA location.</p>	

**Samples Collected, Measurements Made, Photographs: (List Locations, Matrix & Sample type):**

On the Discovery, the following surface sediment samples were collected at SMA locations near RM 4.6 and 6.7:

- PDI-SG-B078 (MS/MSD) – Within 25 ft radius, silty sand with trace gravel, organics
- PDI-SG-S082 – Within 25 ft radius, silt over silty sand with clayey clumps, trace woody debris, plastic bottle
- PDI-SG-S003 – Within 25 ft radius
- PDI-SG-S004 – Within 50 ft radius
- PDI-SG-S010 – Within 25 ft radius

Note: Sediment descriptions are simplified and AECOM/Geosyntec provided more detailed sediment descriptions in their sampling notes.

On the Cayuse, the following surface sediment samples were collected at SMA locations near RM 4.6 and 6.7:

- PDI-SG-S086 – Within 50 ft radius, sandy silt
- PDI-SG-S087 – Within 50 ft radius, sand
- PDI-SG-S090 - Archive (thin sample) – Within 50 ft radius, brown over black sand, clam
- PDI-SG-S090-21 (non-composite sample collected) – Within 50 ft radius, brown over black sand, clam
- PDI-SG-S091 – Within 25 ft radius, brown over black sand, clam
- PDI-SG-S088-Archive (thin sample) – Within 50 ft radius, sandy silt and sand
- PDI-SG-S088 (thick sample) – Within 50 ft radius, sandy silt

Note: Sediment descriptions are simplified and AECOM/Geosyntec provided more detailed sediment descriptions in their sampling notes.

Photographs of work were taken throughout the day on board the Discovery and provided to EPA via email. Additional photos were taken and archived with a description included in the photolog Excel spreadsheet, which are maintained electronically in the ProjectWise project folder.

**Borings Completed (Include total footage drilled for each boring):**

None

**Wastes Generated and How Handled:**

- Excess sediment and debris in the power grab sampler and in the sampling bowls was rinsed back into the river per the FSP. No major sheen was observed.
- Disposable gloves, paper towels, and other general trash was containerized in a trash bag and removed daily for disposal to a municipal waste management dumpster.

**Health and Safety Issues, Equipment Needs, Staffing:**

During periodic unloading of barges at Schnitzer Steel, airborne particulates were observed in the adjacent slip while sampling but did not impact the sampling locations. Minor odors (i.e., rusty metal, oil, soil) were present intermittently during sampling. AECOM/Geosyntec said they will move to another location if airborne particulates and significant odors are present at a sampling location.

**Signature:**      Julee Trump

**DATE**      May 9, 2018